

ACTGTCTGGAAC TGGACTGAGTCACCAAAAGGCGAATGGCTTCATCTTATAAAATGTCTGAACAAAGCACA
ACTTCTGAGCACATTACAGAACATGTGATCACCTGACTAACCCTGTTGGATTAGAGACAGA
CTCAGTAGCAGAGGAATGAAGCAGACTGTGGAGGGACAGGGGCATACAGTGCAGCTCCCTGA
TAECTCGCGGTGATAATACCCACCATTGGTGGAACATCCTGTGATTCTGGCTGTCAGTGAGAAAAGG
CTGCAGTACGCTACCAACTACTTTAATGTCCTGGCGATAGCAGATTGCTGGTTGGATTGTTGTGAT
GCCGATTGCCCTCTTGACAATCATGTTGAGGCTATATGGCCCCCTCCACTGGCCCTGTGTCCTGCCTGGT
TATTCCCTCGATGTTCTCTTCAACTGCCTCCATGCATCTGTGCCATTCCCTGGACCGCTATATA
GCCATCAAAAAGCCAATCAGGCCAACAGTGCACACCCGGGCTACTGCATTCAAGATTACAGTGGT
ATGGTTAATTCAATAGGCATGCCATCCCAGTCCATTAAAGGAATCGAGACTGATGTGATTAATCCAC
ACAATGTCACCTGTGAGCTGACAAAGGACCGCTTGGCAGTTATGGTCTTGGGTCACTGGCTGTTTC
TTCGTACCTCTCACCATCATGGTAGTCATTACTTCTACCATTACACTTACAGAAGAAAGCTTACTT
GGTCAAAAATAAGCCACCTCAACGCCAACACGGTGGACTGTGCCACAGTTCTAAGGGAAGACTCAT
CCTTTCATCACAGAAAAGGTGGCAATGCTGGATGGGTCTCACAGGGATAAAATTCTACACTCAAGT
GATGAGACACTTATGCGAAGAATGTCCTCAGTTGGAAAAAGATCAGCCAAACCATTCTAATGAGCAGAG
AGCCTCGAAGGCCCTGGAGTCGTGTTTCCTTCTGCTTATGTGGTGCCTTATTACAAATC
TAACTTAGCTCTGTGATTCTGCAATCAGACCACTCTCAAACACTCCTGGAGATATTGTGTTGATA
GGCTACGTTCTCGGGGTGAATCCTCTGATCTACACTCTCAATAAGACATTGGAAGCATTGCTTGG
CAGGTACATCACCTGCAATTACCGAGCCACAAAGTCAGTAAAGCACTTAGGAAGTTCCAGTACACTT
GTTTGGGAATTCAATGGTAGAAAACCTCAAATTTCACAAACATGGAATTGAAATGGATCAACCCT
GCCATGTACCAGAGCCAATGAGGCTCCGATGTTCAACCATTCACTGGAGTCAGCTACATATTGCAAGG
CCTTCTCACTGAAAACGATGGCGACAAAGCGGAAGAGCAGGTCAAGTCAAGAGTGA (SEQ ID NO:1)

MASSYKMSEQSTTSEHILQKTCDFLILTNRSGLEDSVAEEMKQTVEGQGHTVHWAALLLAVIIPFIGN
ILVILAVALEKRLQYATNYFLMSLAIADLLVGLFVMPIALLTIMFEAIWPLPLALCPAWLFLDVLFSTASI
MHLCAISLDRYIAIKPIQANQCNRTRATAFIKITVVWLISIGIAIPVPIKGIEDVINPHNVTCELTDRF
GSFMVFGSLAFFFVPLTIMVVTYFLTIHTLQKKAYLVKNKPPQRLTRWTVPFLREDSSFSSPEKVAMLD
GSHRDKILPNSSDETLMRRMSSVGKRSQAQTISNEQRASKALGVVFFLFLMWCPFFITNLTLALCDSCNQT
TLKTLLEIFVWIGYVSSGVNPLIYTLFNKTFREAFGRYITCNYRATKSVKALRKFSSTLCFGNSMVENS
FTKHGIRNGINPAMYQSPMRLRCSTIQSSSIILLDTLLTENDGDKAEEQVSYILQERAGLILREGDEQDAR
APWQVQE (SEQ ID NO:2)

FIGURE 1

Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

ACTGTCTGGAACTGGACTGAGTCACCAAAAGGCGAATGGCTTCATCTTATAAAATGTCTG
AACAAAGCACAACTTCTGAGCACATTTACAGAAGACATGTGATCACCTGATCCTGACTA
ACCGTTCTGGATTAGAGACAGACTCAGTAGCAGAGGAAATGAAGCAGACTGTGGAGGGAC
AGGGGCATACAGTGCACTGGGCAGCTCTCCTGATAACTCGCGGTGATAATACCCACCATTG
GTGGGAACATCCTTGATTCTGGCTGTTGCACTGGAGAAAAGGCTGAGTACGCTACCA
ACTACTTTTAATGTCCTT GCGATAGCAGATTGCTGGTTGGATTGTTGTGATGCCGA
TTGCCCTCTTGACAATCATGTTGAGGCTATATGGCCCCTCCCACTGGCCCTGTGTCCTG
CCTGGTTATTCCTCGATGTTCTCTTCAACTGCCTCCATCATGCATCTGTGCCATT
CCCTGGACCGCTATATAGCCATAAAAAGCCAATTCAGGCCAATCAGTGCAACACCCGGG
CTACTGCATTCATCAAGATTACAGTGGTATGGTTAATTCAATAGGCATGCCATCCCAG
TCCCTATTAAAGGAATCGAGACTGATGTGATTAATCCACACAATGTCACCTGTGAGCTGA
CAAAGGACCGCTTGGCAGTTATGGTCTTGGGCACTGGCTGCTTCTCGTACCTC
TCACCCATGGTAGTCACTTACTTCTCACCATTCACACTTACAGAAGAAAGCTTACT
TGGTCAAAAATAAGCCACCTCAACGCCTAACACCGTGGACTGTGCCCACAGTTCTAA
GGGAAGACTCATCCTTCACTCACCAGAAAAGGTGGCAATGCTGGATGGGTCTCACAGGG
ATAAAATTCTACCTAACTCAAGTGATGAGACACTTATGCGAAGAATGTCCTCAGTTGGAA
AAAGATCAGCCAAACCATTCTAATGAGCAGAGAGCCTCGAAGGCCCTGGAGTCGTGT
TTTCCTTTCTGCTTATGTGGTGCCTCTTATTACAAATCTAACTTAGCTCTGT
GTGATTCCTGCAATCAGACCACTCTCAAAACACTCCTGGAGATATTGTGAGTAGGCT
ACGTTCTCGGGGTGAATCCTCTGATCTATACACTCTTCAATAAGACATTCGGAAG
CATTGGCAGGTACATCACCTGCAATTACCGAGCCACAAAGTCAGTAAAGCACCTAGGA
AGTTTTCCAGTACACTTGTGGAATTCAATGGTAGAAAACTCTAAATTTCACAA
AACATGGATTGAAATGGATCAACCCTGCCATGTACCAGAGCCCAATGAGGCTCCGAT
GTTCAACCATTCACTGCTCATCAATCATCCTCGATACCCTCTCACTGAAACGATG
GCGACAAAGCGGAAGAGCAGGTCAGTACATATTGCAGGAACGGCCGGCTCATCTGA
GAGAGGGTGATGAGCAGGACGCGACGCGACCATGGCAGGTTCAAGAGTGA

FIGURE 2A

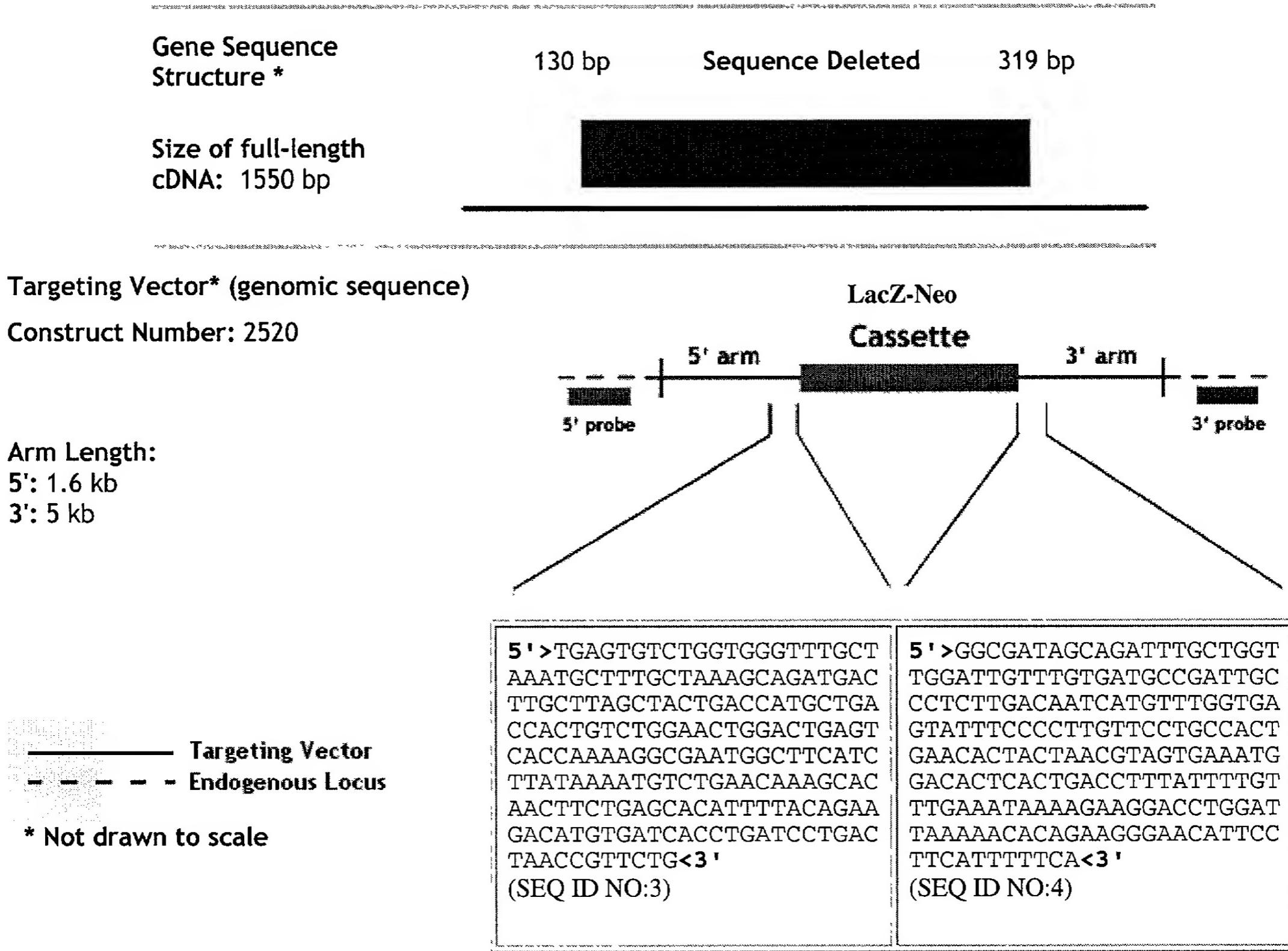


FIGURE 2B